

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1 – 19 (Canceled).

Claim 20 (Currently Amended): A method of communication in a frequency hopping wireless network using a time-division duplex (TDD) scheme having a plurality of time slots divide into a plurality of master-to-slave slots and a plurality of slave-to-master slots, wherein the plurality of master-to-slave slots are even slots and the plurality of slave-to-master slots are odd slots, said method comprising:

coupling an enhanced master device with a slave device;

initiating communication from ~~at~~the master device to ~~at~~the slave device on a ~~first~~
channel selected from an original hopping sequence; ~~and~~

selecting a channel from a repeated channel adaptive hopping sequence if the
slave device is an enhanced slave device; and

responding to the master device from the slave device on ~~the first~~ a channel
selected from a repeated channel adaptive hopping sequence if the slave
device is an enhanced slave device;

responding to the master device from the slave device on a channel selected
from the original hopping sequence if the slave device is a legacy slave
device

~~wherein the initiating communication from the master device comprises sending~~
~~data to the slave device in a master to-slave slot time slot on the first~~
~~channel, and the packet from the slave device is transmitted in a slave to-~~
~~master time slot immediately following the master to-slave time slot on the~~
~~first channel.~~

Claim 21 (Currently Amended): A method according to claim 20, wherein the slave responding to the master device comprises:

transmitting a packet to the master device on the ~~first~~selected channel, wherein the ~~first~~selected channel is used for transmission during entire length of the packet.

Claim 22 (Cancelled).

Claim 23 (Previously Presented): A method according to claim 20, wherein the wireless network is a Bluetooth wireless network.

Claim 24 (Cancelled).

.Claim 25 (Cancelled).

Claim 26 (Currently Amended): A system for communication in a frequency hopping wireless network comprising:

a master device; and

at least one slave device communicatively coupled to the master device, wherein

the master device is configured to initiate communication with the slave

device on a ~~first~~channel selected from an original hopping sequence; and

the slave device is configured to transmit data to the master device on ~~the first~~

~~channel~~in a ~~in~~ response to the master device initiating the communication

on a channel selected from a repeated channel adaptive hopping

sequence if the slave device is an enhanced slave device or on a channel

selected from the original hopping sequence if the slave device is a legacy

slave device

~~wherein the master device is further configured to send data to the slave device~~

~~in a master to slave time slot on the first channel, and the slave device is~~

~~further configured to transmit the packet in a slave to master time slot~~

~~immediately following the master to slave time slot on the first channel.~~

Claim 27 (Previously Presented): A system according to claim 26, wherein the slave device is further configured to:

transmit a packet to the master device on the first channel, wherein the first channel is used for transmission during entire length of the packet.

Claim 28 (Canceled).

Claim 29 (Previously Presented): A system according to claim 26, wherein the wireless network is a Bluetooth wireless network.